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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Tue Sep 25 12:12:43 EDT 2007

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Reviewer Comments:

? ?

Delete the Non Ascii characters appears above the headings.

?? ?? ?C# hC# h * + O s ? ? ? ? N P ? ?

/

0

>

?

Please delete the end of file text which appears below seq id 656
And save the file in ASCII txt mode

delete the extra heading inserted in the sequence listing which appears
one below the other.

Application No:	10576331	Version No:	1.0
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Input Set:

Output Set:

Started: 2007-09-12 13:26:32.596
Finished: 2007-09-12 13:27:06.289
Elapsed: 0 hr(s) 0 min(s) 33 sec(s) 693 ms
Total Warnings: 2355
Total Errors: 342
No. of SeqIDs Defined: 656
Actual SeqID Count: 656

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)

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Error code	Error Description
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (34)
W 402	Undefined organism found in <213> in SEQ ID (37)
W 402	Undefined organism found in <213> in SEQ ID (38)
W 402	Undefined organism found in <213> in SEQ ID (40)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48)
W 213	Artificial or Unknown found in <213> in SEQ ID (49)
W 213	Artificial or Unknown found in <213> in SEQ ID (50)
W 213	Artificial or Unknown found in <213> in SEQ ID (51)
W 213	Artificial or Unknown found in <213> in SEQ ID (52)
W 402	Undefined organism found in <213> in SEQ ID (61)
W 402	Undefined organism found in <213> in SEQ ID (62)
E 355	Empty lines found between the amino acid numbering and the
E 321	No. of Bases conflict, this line has no nucleotides SEQID (62)
W 402	Undefined organism found in <213> in SEQ ID (65)
W 402	Undefined organism found in <213> in SEQ ID (66)
W 402	Undefined organism found in <213> in SEQ ID (69) This error has occurred more than 20 times, will not be displayed

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Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (79)
W 213	Artificial or Unknown found in <213> in SEQ ID (80)
W 213	Artificial or Unknown found in <213> in SEQ ID (81)
W 213	Artificial or Unknown found in <213> in SEQ ID (82)
W 213	Artificial or Unknown found in <213> in SEQ ID (83)
W 213	Artificial or Unknown found in <213> in SEQ ID (84) This error has occurred more than 20 times, will not be displayed
E 341	'Xaa' position not defined SEQID (125) POS (170)
E 341	'Xaa' position not defined SEQID (125) POS (171)
E 341	'Xaa' position not defined SEQID (125) POS (172)
E 341	'Xaa' position not defined SEQID (125) POS (173)
E 341	'Xaa' position not defined SEQID (125) POS (174)
E 341	'Xaa' position not defined SEQID (125) POS (175)
E 341	'Xaa' position not defined SEQID (125) POS (176)
E 341	'Xaa' position not defined SEQID (125) POS (177)
E 341	'Xaa' position not defined SEQID (125) POS (178)
E 341	'Xaa' position not defined SEQID (125) POS (179)
E 341	'Xaa' position not defined SEQID (125) POS (180)
E 341	'Xaa' position not defined SEQID (125) POS (181)
E 341	'Xaa' position not defined SEQID (125) POS (182)
E 341	'Xaa' position not defined SEQID (125) POS (183)
E 341	'Xaa' position not defined SEQID (125) POS (184)
E 341	'Xaa' position not defined SEQID (125) POS (185)

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Error code	Error Description
E 341	'Xaa' position not defined SEQID (125) POS (186)
E 341	'Xaa' position not defined SEQID (125) POS (187)
E 341	'Xaa' position not defined SEQID (125) POS (188)
E 341	'Xaa' position not defined SEQID (125) POS (189) This error has occurred more than 20 times, will not be displayed
W 112	Upper case found in data; Found at position(977) SEQID(656)
W 112	Upper case found in data; Found at position(1528) SEQID(656)
W 112	Upper case found in data; Found at position(1930) SEQID(656)
W 112	Upper case found in data; Found at position(1950) SEQID(656)
W 112	Upper case found in data; Found at position(2002) SEQID(656)
W 112	Upper case found in data; Found at position(2030) SEQID(656)
W 112	Upper case found in data; Found at position(2440) SEQID(656)
W 112	Upper case found in data; Found at position(2452) SEQID(656)
W 112	Upper case found in data; Found at position(2496) SEQID(656)
W 112	Upper case found in data; Found at position(2500) SEQID(656)
W 112	Upper case found in data; Found at position(2504) SEQID(656)
W 112	Upper case found in data; Found at position(2531) SEQID(656)
W 112	Upper case found in data; Found at position(2552) SEQID(656)
W 112	Upper case found in data; Found at position(2941) SEQID(656)
W 112	Upper case found in data; Found at position(2945) SEQID(656)
W 112	Upper case found in data; Found at position(2966) SEQID(656)
W 112	Upper case found in data; Found at position(2991) SEQID(656)
W 112	Upper case found in data; Found at position(3015) SEQID(656)

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Error code	Error Description
W 112	Upper case found in data; Found at position(3043) SEQID(656)
W 112	Upper case found in data; Found at position(3047) SEQID(656) This error has occurred more than 20 times, will not be displayed
E 342	'n' position not defined found at POS: 4496 SEQID(656)
E 342	'n' position not defined found at POS: 9429 SEQID(656)
E 342	'n' position not defined found at POS: 12391 SEQID(656)
E 342	'n' position not defined found at POS: 12931 SEQID(656)
E 342	'n' position not defined found at POS: 19721 SEQID(656)
E 342	'n' position not defined found at POS: 30772 SEQID(656)
E 342	'n' position not defined found at POS: 30776 SEQID(656)
E 342	'n' position not defined found at POS: 30779 SEQID(656)
E 342	'n' position not defined found at POS: 30783 SEQID(656)
E 342	'n' position not defined found at POS: 30787 SEQID(656)
E 342	'n' position not defined found at POS: 30791 SEQID(656)
E 342	'n' position not defined found at POS: 30795 SEQID(656)
E 342	'n' position not defined found at POS: 30799 SEQID(656)
E 342	'n' position not defined found at POS: 30803 SEQID(656)
E 342	'n' position not defined found at POS: 30807 SEQID(656)
E 342	'n' position not defined found at POS: 30811 SEQID(656)
E 342	'n' position not defined found at POS: 30815 SEQID(656)
E 342	'n' position not defined found at POS: 30819 SEQID(656)
E 342	'n' position not defined found at POS: 30823 SEQID(656)
E 342	'n' position not defined found at POS: 30827 SEQID(656)

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Error code	Error Description
E 259	Found undefined lettercode; POS (90993) SEQID(656)
E 259	Found undefined lettercode; POS (90994) SEQID(656)
E 259	Found undefined lettercode; POS (90995) SEQID(656)
E 259	Found undefined lettercode; POS (90996) SEQID(656)
E 259	Found undefined lettercode; POS (90997) SEQID(656)
E 259	Found undefined lettercode; POS (90998) SEQID(656)
E 259	Found undefined lettercode; POS (90999) SEQID(656)
E 259	Found undefined lettercode; POS (91000) SEQID(656)
E 259	Found undefined lettercode; POS (91001) SEQID(656)
E 259	Found undefined lettercode; POS (91002) SEQID(656)
E 259	Found undefined lettercode; POS (91003) SEQID(656)
E 259	Found undefined lettercode; POS (91004) SEQID(656)
E 259	Found undefined lettercode; POS (91005) SEQID(656)
E 259	Found undefined lettercode; POS (91006) SEQID(656)
E 259	Found undefined lettercode; POS (91008) SEQID(656)
E 259	Found undefined lettercode; POS (91009) SEQID(656)
E 259	Found undefined lettercode; POS (91010) SEQID(656)
E 259	Found undefined lettercode; POS (91011) SEQID(656)
E 259	Found undefined lettercode; POS (91012) SEQID(656)
E 259	Found undefined lettercode; POS (91013) SEQID(656)

This error has occurred more than 20 times, will not be displayed

<210> 1

<211> 1680

<212> DNA

<213> Cellulomonas strain 69B4

<400> 1

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accagcacgc tcctaacctc cgagcaccgc cgaccgccgc gtgcgatgaa agggacgaac 180
cgagatgaca ccacgcacag tcacgcgggc cctggccgtg gccaccgcag ccgccacact 240
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cgtcctgtac gtcgccacca ccgacgagga cgcgctcgag gaggtcgagg gcgaaggcgc 540
cacggccgtc accgtcgagc actccctggc cgacctcgag gcctggaaga ccgtcctcga 600
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caccttcacc gggaccctcg cggccggccg ggcccgccc cagcccaacg ggtcctacgt 1440
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ccccggtcc aacgagacca tcacctacc cggcaacgcc ggctactacc gctacgtggt 1620
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<210> 2

<211> 1488

<212> DNA

<213> Cellulomonas strain 69B4

<400> 2

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gccctcgagg gccacgacga cgtgcccacc tggtagctcg acgtcccgc caacagcgtc 480
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ggctccaacg	agaccatcac	ctaccgggc	aacggcggt	actaccgcta	cgtggtcaac	1440
gcccggtccg	gctccgggtc	ctacaccatg	gggtcacc	tcccctga		1488

<210> 3
 <211> 1404
 <212> DNA
 <213> Cellulomonas spp.

<400> 3						
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<210> 4
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 <212> DNA
 <213> Cellulomonas spp.

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 <212> DNA
 <213> Cellulomonas strain 69B4

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 caggcggcat ggccgccag gcc

60
 83

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 <211> 495
 <212> PRT
 <213> Cellulomonas strain 69B4

<400> 6

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 35 40 45
 Pro Asp Leu Leu Glu Ala Met Glu Arg Asp Leu Gly Leu Asp Ala Glu
 50 55 60
 Glu Ala Ala Ala Thr Leu Ala Phe Gln His Asp Ala Ala Glu Thr Gly
 65 70 75 80
 Glu Ala Leu Ala Glu Glu Leu Asp Glu Asp Phe Ala Gly Thr Trp Val
 85 90 95
 Glu Asp Asp Val Leu Tyr Val Ala Thr Thr Asp Glu Asp Ala Val Glu
 100 105 110
 Glu Val Glu Gly Glu Gly Ala Thr Ala Val Thr Val Glu His Ser Leu
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 Ala Asp Leu Glu Ala Trp Lys Thr Val Leu Asp Ala Ala Leu Glu Gly
 130 135 140
 His Asp Asp Val Pro Thr Trp Tyr Val Asp Val Pro Thr Asn Ser Val
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 Val Val Ala Val Lys Ala Gly Ala Gln Asp Val Ala Ala Gly Leu Val
 165 170 175
 Glu Gly Ala Asp Val Pro Ser Asp Ala Val Thr Phe Val Glu Thr Asp
 180 185 190
 Glu Thr Pro Arg Thr Met Phe Asp Val Ile Gly Gly Asn Ala Tyr Thr
 195 200 205
 Ile Gly Gly Arg Ser Arg Cys Ser Ile Gly Phe Ala Val Asn Gly Gly
 210 215 220
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 225 230 235 240
 Pro Thr Gly Thr Phe Ala Gly Ser Ser Phe Pro Gly Asn Asp Tyr Ala
 245 250 255
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 Tyr Ser Gly Gly Arg Val Gln Val Ala Gly His Thr Ala Ala Pro Val
 275 280 285
 Gly Ser Ala Val Cys Arg Ser Gly Ser Thr Thr Gly Trp His Cys Gly

290

295

300

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 370 375 380
 Ser Ser Pro Ala Pro Ala Pro Thr Ser Cys Thr Gly Tyr Ala Arg Thr
 385 390 395 400
 Phe Thr Gly Thr Leu Ala Ala Gly Arg Ala Ala Ala Gln Pro Asn Gly
 405 410 415
 Ser Tyr Val Gln Val Asn Arg Ser Gly Thr His Ser Val Cys Leu Asn
 420 425 430
 Gly Pro Ser Gly Ala Asp Phe Asp Leu Tyr Val Gln Arg Trp Asn Gly
 435 440 445
 Ser Ser Trp Val Thr Val Ala Gln Ser Thr Ser Pro Gly Ser Asn Glu
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<210> 7

<211> 467

<212> PRT

<213> Cellulomonas strain 69B4

<400> 7

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 Glu Lys Leu Asp Pro Asp Leu Leu Glu Ala Met Glu Arg Asp Leu Gly
 20 25 30
 Leu Asp Ala Glu Glu Ala Ala Ala Thr Leu Ala Phe Gln His Asp Ala
 35 40 45
 Ala Glu Thr Gly Glu Ala Leu Ala Glu Glu Leu Asp Glu Asp Phe Ala
 50 55 60
 Gly Thr Trp Val Glu Asp Asp Val Leu Tyr Val Ala Thr Thr Asp Glu
 65 70 75 80
 Asp Ala Val Glu Glu Val Glu Gly Glu Gly Ala Thr Ala Val Thr Val
 85 90 95
 Glu His Ser Leu Ala Asp Leu Glu Ala Trp Lys Thr Val Leu Asp Ala
 100 105 110
 Ala Leu Glu Gly His Asp Asp Val Pro Thr Trp Tyr Val Asp Val Pro
 115 120 125
 Thr Asn Ser Val Val Val Ala Val Lys Ala Gly Ala Gln Asp Val Ala
 130 135 140
 Ala Gly Leu Val Glu Gly Ala Asp Val Pro Ser Asp Ala Val Thr Phe
 145 150 155 160
 Val Glu Thr Asp Glu Thr Pro Arg Thr Met Phe Asp Val Ile Gly Gly
 165 170 175
 Asn Ala Tyr Thr Ile Gly Gly Arg Ser Arg Cys Ser Ile Gly Phe Ala
 180 185 190

Val	Asn	Gly	Gly	Phe	Ile	Thr	Ala	Gly	His	Cys	Gly	Arg	Thr	Gly	Ala
195							200					205			
Thr	Thr	Ala	Asn	Pro	Thr	Gly	Thr	Phe	Ala	Gly	Ser	Ser	Phe	Pro	Gly
210						215				220					
Asn	Asp	Tyr	Ala	Phe	Val	Arg	Thr	Gly	Ala	Gly	Val	Asn	Leu	Leu	Ala
225				230						235				240	
Gln	Val	Asn	Asn	Tyr	Ser	Gly	Gly	Arg	Val	Gln	Val	Ala	Gly	His	Thr
			245					250					255		
Ala	Ala	Pro	Val	Gly	Ser	Ala	Val	Cys	Arg	Ser	Gly	Ser	Thr	Thr	Gly
		260					265					270			
Trp	His	Cys	Gly	Thr	Ile	Thr	Ala	Leu	Asn	Ser	Ser	Val	Thr	Tyr	Pro
	275					280						285			
Glu	Gly	Thr	Val	Arg	Gly	Leu	Ile	Arg	Thr	Thr	Val	Cys	Ala	Glu	Pro
290						295					300				
Gly	Asp	Ser	Gly	Gly	Ser	Leu	Leu	Ala	Gly	Asn	Gln	Ala	Gln	Gly	Val
305					310					315				320	
Thr	Ser	Gly	Gly	Ser	Gly	Asn	Cys	Arg	Thr	Gly	Gly	Thr	Thr	Phe	Phe
			325					330					335		
Gln	Pro	Val	Asn	Pro	Ile	Leu	Gln	Ala	Tyr	Gly	Leu	Arg	Met	Ile	Thr
	340						345					350			
Thr	Asp	Ser	Gly	Ser	Ser	Pro	Ala	Pro	Ala	Pro	Thr	Ser	Cys	Thr	Gly
	355					360						365			
Tyr	Ala	Arg	Thr	Phe	Thr	Gly	Thr	Leu	Ala	Ala	Gly	Arg	Ala	Ala	Ala
370						375					380				
Gln	Pro	Asn	Gly	Ser	Tyr	Val	Gln	Val	Asn	Arg	Ser	Gly	Thr	His	Ser
385					390					395				400	
Val	Cys	Leu	Asn	Gly	Pro	Ser	Gly	Ala	Asp	Phe	Asp	Leu	Tyr	Val	Gln
			405					410				415			
Arg	Trp	Asn	Gly	Ser	Ser	Trp	Val	Thr	Val	Ala	Gln	Ser	Thr	Ser	Pro
		420					425					430			
Gly	Ser	Asn	Glu	Thr	Ile	Thr	Tyr	Arg	Gly	Asn	Ala	Gly	Tyr	Tyr	Arg
	435					440					445				
Tyr	Val	Val	Asn	Ala	Ala	Ser	Gly	Ser	Gly	Ala	Tyr	Thr	Met	Gly	Leu
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Thr	Leu	Pro													
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Phe	Asp	Val	Ile	Gly	Gly	Asn	Ala	Tyr	Thr	Ile	Gly	Gly	Arg	Ser	Arg
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Cys	Ser	Ile	Gly	Phe	Ala	Val	Asn	Gly	Gly	Phe	Ile	Thr	Ala	Gly	His
		20						25				30			
Cys	Gly	Arg	Thr	Gly	Ala	Thr	Thr	Ala	Asn	Pro	Thr	Gly	Thr	Phe	Ala
	35					40						45			
Gly	Ser	Ser	Phe	Pro	Gly	Asn	Asp	Tyr	Ala	Phe	Val	Arg	Thr	Gly	Ala
	50					55					60				
Gly	Val	Asn	Leu	Leu	Ala	Gln	Val	Asn	Asn	Tyr	Ser	Gly	Gly	Arg	Val
65				70						75				80	
Gln	Val	Ala	Gly	His	Thr	Ala	Ala	Pro	Val	Gly	Ser	Ala	Val	Cys	Arg
			85					90				95			
Ser	Gly	Ser	Thr	Thr	Gly	Trp	His	Cys	Gly	Thr	Ile	Thr	Ala	Leu	Asn

100	105	110
Ser Ser Val Thr Tyr Pro Glu Gly Thr Val Arg Gly Leu Ile Arg Thr		
115	120	125
Thr Val Cys Ala Glu Pro Gly Asp Ser Gly Gly Ser Leu Leu Ala Gly		
130	135	140
Asn Gln Ala Gln Gly Val Thr Ser Gly Gly Ser Gly Asn Cys Arg Thr		
145	150	155
Gly Gly Thr Thr Phe Phe Gln Pro Val Asn Pro Ile Leu Gln Ala Tyr		
165	170	175
Gly Leu Arg Met Ile Thr Thr Asp Ser Gly Ser Ser Pro		
180	185	

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Met Thr Pro Arg Thr Val Thr Arg Ala Leu Ala Val Ala Thr Ala Ala		
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Ala Thr Leu Leu Ala Gly Gly Met Ala Ala Gln Ala		15
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Asp Gly Trp Asp Cys Gly Thr Ile Thr Ala Leu Asn Ser Ser Val Thr
1 5 10 15
Tyr